

Abstract Submitted
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Double Longitudinal Spin Asymmetry Measurement and Cross-section for Inclusive Jets at $\sqrt{s}=200$ GeV in polarized p+p collisions
JULIE MILLANE, Massachusetts Institute of Technology — One of the STAR Spin Collaboration's goals is to determine the proton's polarized gluon distribution for $0.01 < x_g < 0.3$. The STAR Collaboration takes data at RHIC, which collides polarized protons. A time projection chamber and electromagnetic calorimeter allow pseudorapidity coverage from -1 to +2. A progress report on the 2005 double spin asymmetry measurement will be the focus of this contribution. This measurement has approximately 3 pb^{-1} of data at $\sqrt{s}=200\text{GeV}$. Jet transverse momentum coverage is $5 < p_t < 20$ GeV. In 2005 there was increased luminosity, improved jet trigger rates and higher polarization over previous years. Comparisons of A_{LL} to various inclusive jets A_{LL} predictions based on several gluon polarization scenarios will be made. 2003/2004 cross-section and double spin asymmetry measurements will also be presented. These measurements have approximately 1 pb^{-1} of data. Jet transverse momentum for the cross-section measurement is $5 < p_t < 50$ GeV. The cross-section will be compared to NLO pQCD calculations and to simulations.

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